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JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 10107322

(43) Date of publication of application: 24.04.1998

(51) Int. Cl.

H01L 33/00

(21)Application number: 08257206

(22) Date of filing: 30.09.1996

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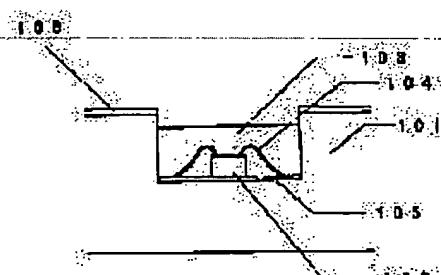
IZUNO KUNIHIRO

(54) LED DISPLAY

(57)Abstract:

PROBLEM TO BE SOLVED: To achieve an improved fineness and a high visual field angle, improve reliability, and make an LED display thin by arranging a conductor wire and selecting a substrate with a plurality of recessed openings from ceramic, a metal substrate, and a heat-resistance organic resin with a thermally-conductive filler.

SOLUTION: A substrate 101 has a conductor wiring layer 105 where, for example, an electrical connection member such as an LED chip 102 and a conductive wire 104 and a plurality of recessed openings that contain a fluorescent substance are provided. A substrate with the conductor wiring layer 105 with the recessed openings preferably has an improved adhesion property with, for example, a coating part 103 that contains a fluorescent with improved heat radiation property. As a wiring substrate material with the recessed openings, a ceramic substrate, a metal substrate with a conductor wiring layer via an insulation layer, based on a metal and a heat-resistance organic resin substrate with a thermally conductive filler are listed. Especially, a ceramic substrate mainly consisting of alumina is preferable, in terms of heat radiation property and weather resistance.



LEGAL STATUS

[Date of request for examination] 15.02.1999
[Date of sending the examiner's decision of rejection]
[Kind of final disposal of application other than the
examiner's decision of rejection or application converted
registration]
[Date of final disposal for application]
[Patent number]
[Date of registration]
[Number of appeal against examiner's decision of rejection]
[Date of requesting appeal against examiner's decision of
rejection]
[Date of extinction of right]

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